

**Patent claims**

1. A pump with an integrated, electronically commutated wet-running motor, characterized in that the pump (1) has an integral pump chamber (4) which contains a rotor (5) of the wet-running motor.
2. The pump as claimed in claim 1, characterized in that the pump chamber is formed by a front housing shell (2) and a shield (3) of the wet-running motor.
3. The pump as claimed in claim 2, characterized in that the shield (3) is in the form of a pot.
4. The pump as claimed in one of the preceding claims, characterized in that the pump (1) has a shaft (9) which is installed such that it cannot rotate, and on which the rotor (5) is mounted such that it can rotate.
5. The pump as claimed in claim 4, characterized in that the shaft (9) is mounted in the shield (3).
6. The pump as claimed in claim 4 or 5, characterized in that the shaft (9) is mounted in at least one O-ring (19).
7. The pump as claimed in one of claims 4 to 6, characterized in that the rotor (5) is mounted on the shaft (9) by means of at least one radial sliding bearing (7, 8).
8. The pump as claimed in claim 7, characterized in that the radial sliding bearing (7, 8) is held in the rotor (5) by means of an O-ring (30, 31).

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9. The pump as claimed in one of claims 4 to 8, characterized in that the rotor (5) is mounted on the shaft (9) by means of an axial bearing (12).

10. The pump as claimed in claim 7 or 8, characterized in that the sliding bearing (7, 8) has a liquid seal.

11. The pump as claimed in claim 9, characterized in that the axial bearing (12) has a liquid seal.

12. The pump as claimed in claim 10 or 11, characterized in that the liquid seal has a rubber shock absorbing means (14).

13. The pump as claimed in one of claims 10 to 12, characterized in that the liquid seal has an O-ring (13).

14. The pump as claimed in one of the preceding claims, characterized in that the rotor (5) has an internal space which is divided into two subregions (32, 33) which run toward one another in a conically tapering manner.

15. The pump as claimed in one of the preceding claims, characterized in that the rotor (5) has an impeller (6).

16. The pump as claimed in claim 15, characterized in that the impeller (6) is integrally formed on the rotor (5).

17. The pump as claimed in one of the preceding claims, characterized in that the rotor (5) is encased in plastic.

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18. The pump as claimed in one of the preceding claims, characterized in that the pump (1) is suitable for domestic appliances containing water.

19. A dishwasher having a pump as claimed in one of the preceding claims.